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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/070,979	05/31/2002	Pierre Dourrel	S-99/37	4774
7590	01/25/2005		EXAMINER	
Connolly Bove Lodge & Hutz PO Box 2207 Wilmington, DE 19899-2207			KUHNS, ALLAN R	
			ART UNIT	PAPER NUMBER
			1732	

DATE MAILED: 01/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

MAP

Office Action Summary	Application No.	Applicant(s)	
	10/070,979	DOURNEL, PIERRE	
	Examiner	Art Unit	
	Allan Kuhns	1732	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 15 October 2004.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 14-31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 14-31 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 121704.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

1. Claims 28, 30 and 31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. These claims are indefinite since there is no temperature scale given. Clarification is required.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 14-20 and 22-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Smith et al. (5,276,063). Smith et al. disclose the claimed process and composition for manufacturing a closed cell foam in which a blowing agent comprising 1,1-difluoroethane and 1,1,1,2-tetrafluoroethane is employed. Note column 3, lines 9-68.

Smith et al. teach the weight ratios of claims 15-17 and 22-23, an alcohol, as in claims 18-19 (column 3, line 25) and the specific alcohols of claim 20.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 24-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith et al. (5,276,063). Smith et al. disclose the formation of a closed cell polystyrene

foam, and the examiner takes Official Notice that it is known to produce thermal insulating panels from polystyrene foam having the physical characteristics of claims 24-31.

5.Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over WO 96/34038 (Shmidt et al). Shmidt et al. disclose a composition comprising 1,1-difluoroethane, 1,1,1,2-tetrafluoroethane and carbon dioxide at page 2, lines 1-4. It would have been obvious to one of ordinary skill in the art to formulate the composition within the claimed weight ratio range, based on examples given by Shmidt et al., in order to form an evacuated or vacuum insulation panel.

6.Applicants' arguments filed Ovtober 15, 2004 have been fully considered but they are not persuasive. Applicants' arguments are considered to be moot by the examiner based on the revised grounds of rejection introduced in this Office action.

7.The declaration filed on October 15, 2004 under 37 CFR 1.131 is sufficient to overcome the Mason et al. (6,197,233) reference.

8.Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allan Kuhns whose telephone number is (571) 272-1202. The examiner can normally be reached on Monday to Thursday from 7:00 to 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jan Silbaugh, can be reached on (571) 272-1196. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 1732

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Allan R. Kuhns

ALLAN R. KUHNS
PRIMARY EXAMINER AU 1732
1-5-05